

GenCore version 5.1.6  
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OM protein - protein search, using SW model

Run on: June 12, 2003, 15:29:14 ; Search time 16 Seconds  
(without alignments)

114,160 Million cell updates/sec

Title: US-09-869-540a-2

Sequence: 1 DFDMLRCMLGRVYRRCMOV 19

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 283224 seqs, 96134422 residues

Total number of hits satisfying chosen parameters: 283224

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%

Listing first 45 summaries

Database :

PIR\_73:\*  
1: p1r1:\*  
2: p1r2:\*  
3: p1r3:\*  
4: p1r4:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Length	DB ID	Description
1	113	100.0	56 2 S68499	melanin-concentrat
2	113	100.0	165 2 A36237	melanin-concentrat
3	113	100.0	165 2 T52634	melanin-concentrat
4	87	77.0	132 1 MT0N1K	melanin-concentrat
5	87	77.0	132 1 MT0N2K	melanin-concentrat
6	87	77.0	132 1 B32910	melanin-concentrat
7	87	77.0	132 2 S34653	melanin-concentrat
8	87	77.0	132 2 S34654	melanin-concentrat
9	87	77.0	132 2 A32910	melanin-concentrat
10	48	42.5	250 2 G70968	probable methyltra
11	46	40.7	603 2 H64442	hypothetical prote
12	44.5	39.4	186 2 D91252	hypothetical prote
13	44.4	38.9	143 2 T47202	Ig heavy chain var
14	43.5	38.5	413 2 S03416	probable transpos
15	43.5	38.5	426 2 G02277	creatinine transp
16	43.5	38.5	635 2 S23431	choleline transp
17	43.5	38.5	635 2 A46061	Na(+)-dependent cr
18	43.5	38.5	635 2 JC2386	creatinine transp
19	43.5	38.5	635 2 G02095	creatinine transp
20	43	38.1	3206 1 GNVSPV	genome polyploid
21	42.5	37.6	301 2 A39512	myeloperoxidase (E
22	42	37.2	232 2 D28894	myeloperoxidase (E
23	42	37.2	270 2 G90272	conserved hypothet
24	42	37.2	466 2 B89522	hypothetical prote
25	42	37.2	577 1 VGBEG1	glycoprotein E - s
26	42	37.2	660 2 T22794	hypothetical prote
27	42	37.2	708 2 G96518	protein T2E6.8 [im
28	42	37.2	745 1 OPHDM	myeloperoxidase (E
29	42	37.2	625 2 C28894	myeloperoxidase (E

30	42	37.2	830 2 B28894	myeloperoxidase (E
31	42	37.2	1477 2 AG3009	polyketide synthet
32	42	37.2	1489 2 G98274	hypothetical prote
33	41.5	36.7	709 2 E73601	probable transpos
34	41	36.3	343 2 T33241	hypothetical prote
35	41	36.3	368 2 AB2215	hypothetical prote
36	41	36.3	373 2 JC7289	G-protein coupled
37	41	36.3	500 2 T03387	polymaline oxidase
38	41	36.3	762 2 I59329	protein kinase (EC
39	41	36.3	762 2 S68217	protein kinase (EC
40	41	36.3	807 2 T32463	hypothetical prote
41	40	35.4	61 2 C33429	ATPase inhibitor 3
42	40	35.4	173 1 CYCAG2	gamma-crystallin m
43	40	35.4	173 2 H82571	hypothetical prote
44	40	35.4	175 2 PQ0616	transport protein
45	40	35.4	301 2 E95405	probable GPCR tran

#### ALIGNMENTS

##### RESULT 1

S68499 melanin-concentrating hormone - mouse (fragment)

C:Species: Mus musculus (house mouse)

C:Date: 29-Jan-1998 #sequence\_revision 06-Feb-1998 #text\_change 07-May-1999

C:Accession: S68499

R:OU: D.; Ludwig, D.S.; Gammeltoft, S.; Piper, M.; Pellemounter, M.A.; Cullen, M.J.;

Nature 380, 243-246, 1996

A:Title: A role for melanin-concentrating hormone in the central regulation of feeding

A:Reference number: S68499; MUID:96207751; PMID:8637571

A:Accession: S68499

A:Residues: 1-56 <QND>

A:Molecule type: mRNA

A:Experimental source: tissue hypothalamus

C:Superfamily: melanin-concentrating hormone

C:Keywords: hormone; hypothalamus; neuropeptide

F:1-19/Product: neuropeptide N-GE (fragment) #status predicted <NGE>

F:22-35/Product: neuropeptide N-EI #status predicted <NEI>

F:38-56/Product: melanin-concentrating hormone #status predicted <MAT>

Query Match Best Local Similarity 100.0%; Score 113; DB 2; Length 56;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 DFDMLRCMLGRVYRRCMOV 19  
DB 38 DFDMLRCMLGRVYRRCMOV 56

##### RESULT 2

A36237 melanin-concentrating hormone precursor - rat

C:Species: Rattus norvegicus (Norway rat)

C:Date: 12-Apr-1991 #sequence\_revision 12-Apr-1991 #text\_change 16-Jul-1999

C:Accession: A36237; A37407; A37406

R:Thompson, R.C.; Watson, S.J.;

DNA Cell Biol 9, 637-645, 1990

A:Title: Nucleotide sequence and tissue-specific expression of the rat melanin concn

A:Reference number: A36237; MUID:91083836; PMID:2261081

A:Accession: A36237

A:Molecule type: DNA

A:Status: preliminary; not compared with conceptual translation

A:Residues: 1-165 <THO>

A:Cross-references: GB:M62641; NID:9205329; PIDN:AAA41581.1; PID:9205330

R:Nahon, J.L.; Presse, F.; Bittencourt, J.C.; Sawchenko, P.E.; Vale, W.;

Endocrinology 125, 2056-2065, 1989

A:Title: The rat melanin-concentrating hormone messenger ribonucleic acid encodes mul

A:Reference number: A37407; MUID:90005146; PMID:24777226

A:Accession: A37407

A:Status: preliminary

A:Molecule type: mRNA

A:Residues: 1-165 <NAH>

A:Cross-references: GB:M29712; NID:9205327; PIDN:AAA41580.1; PID:9205328  
 R:Vaughan, J.M.; Fischer, W.H.; Hoeger, C.; Rivier, J.; Vale, W.  
 Endocrinology 135, 1660-1665, 1998  
 A:Title: Characterization of melanin-concentrating hormone from rat hypothalamus.  
 A:Reference number: A37406; MUID:89338286; PMID:2759038  
 A:Accession: A37406  
 A:Status: preliminary  
 A:Molecule type: protein  
 A:Residues: 147-165 <NAV>  
 C:Superfamily: melanin-concentrating hormone

Query Match 100.0%; Score 113; DB 2; Length 165;  
 Best Local Similarity 100.0%; Pred. No. 5.5e-11;  
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DFDMLRCMLGRVYRPMQOV 19  
 DB 147 DFDMLRCMLGRVYRPMQOV 165

RESULT 3

152634  
 melanin-concentrating hormone precursor - human  
 N:Alternate names: prepro-melanin-concentrating hormone  
 C:Species: Homo sapiens (man)  
 C>Date: 02-Jul-1996 #sequence\_revision 02-Jul-1996 #text\_change 16-Jul-1999  
 C:Accession: 152634; 165414; A34551  
 R:Breton, C.; Schorpp, M.; Nahon, J.L.  
 Brain Res. Mol. Brain Res. 18, 297-310, 1993  
 A:Title: Isolation and characterization of the human melanin-concentrating hormone gene  
 A:Reference number: 152634; MUID:93316802; PMID:8326825  
 A:Accession: 152634  
 A:Status: preliminary; translated from GB/EMBL/DBJ  
 A:Molecule type: DNA  
 A:Residues: 1-165 <RES>  
 A:Cross-references: GB:S63697; NID:9402795; PIDN:AA827493.1; PID:9402796  
 A:Accession: 165414  
 A:Structure: preliminary; translated from GB/EMBL/DBJ  
 A:Molecule type: DNA  
 A:Residues: 88-96; 'S', 98-100; 'V', 102-108; 'E', 110-121; 'D', 123-131; 'T', 133-142; 'V', 144-145  
 A:Cross-references: GB:S64288; NID:9402797; PIDN:AA827494.1; PID:9402798  
 R:Pressac, F.; Nahon, J.L.; Fischer, W.H.; Vale, W.  
 Mol. Endocrinol. 4, 632-637, 1990  
 A:Title: Structure of the human melanin-concentrating hormone mRNA.  
 A:Reference number: A34551; MUID:91125371; PMID:2149166  
 A:Accession: A34551  
 A:Status: preliminary  
 A:Molecule type: mRNA  
 A:Residues: 1-41; 'F', 43-103; 'G', 105; 'Q', 107-112; 'D', 114-165 <PRE>  
 A:Cross-references: GB:M57703; NID:9187445; PIDN:AAA63214.1; PID:9187446  
 C:Genetics:  
 A:Gene: GDB:PMCH  
 A:Cross-references: GDB:128784; OMIM:176795  
 A:Map position: 12q23-12q24  
 A:Intron: 83/3; 150/1  
 C:Superfamily: melanin-concentrating hormone  
 C:Keywords: hormone; hypothalamus  
 F:1-21/Domain: signal sequence #status predicted <SIG>

Query Match 100.0%; Score 113; DB 2; Length 165;  
 Best Local Similarity 100.0%; Pred. No. 5.5e-11;  
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DFDMLRCMLGRVYRPMQOV 19  
 DB 147 DFDMLRCMLGRVYRPMQOV 165

RESULT 4

MTON2K  
 melanin-concentrating hormone 1 precursor - chum salmon  
 N:Alternate names: MCH  
 C:Species: Oncorhynchus keta (chum salmon)  
 C>Date: 30-Sep-1990 #sequence\_revision 30-Sep-1990 #text\_change 24-Nov-1999  
 C:Accession: JS0283; S04087; JS0049; B01472; A01472  
 R:Takayama, I.; Wada, C.; Kawachi, H.; Ono, M.  
 Gene 80, 65-73, 1989  
 A:Title: Structures of two genes coding for melanin-concentrating hormone of chum sal  
 A:Reference number: A91618; MUID:90006787; PMID:2792771  
 A:Accession: JS0282  
 A:Status: preliminary  
 A:Molecule type: DNA  
 A:Residues: 1-132 <TRK>  
 A:Cross-references: GB:M27872; NID:9213452; PIDN:AAA49418.1; PID:9213453  
 R:Ono, M.; Wada, C.; Okawa, I.; Kawazoe, I.; Kawachi, H.  
 Gene 71, 433-438, 1988  
 A:Title: Structures of two kinds of mRNA encoding the chum salmon melanin-concentrat  
 A:Reference number: A91598; MUID:89138019; PMID:2465207  
 A:Accession: JS0048  
 A:Molecule type: mRNA  
 A:Residues: 1-3; 'S', 5-132 <ONO>  
 A:Cross-references: GB:M23573; NID:9213456; PIDN:AAA49420.1; PID:9213457  
 R:Kawachi, H.; Kawazoe, I.; Tsubokawa, M.; Kishida, M.; Baker, B.L.  
 Nature 305, 321-323, 1983  
 A:Title: Characterization of melanin-concentrating hormone in chum salmon pituitaries  
 A:Reference number: A93316; MUID:84014069; PMID:6621686  
 A:Accession: A01472  
 A:Molecule type: protein  
 A:Residues: 116-132 <NAW>  
 C:Comment: For melanin-concentrating hormone 2, see PIR:MTON2K.  
 C:Comment: This hormone, isolated from the pituitary gland, has an actively antagonis  
 C:Genetics:  
 A:Gene: MCH1  
 C:Superfamily: melanin-concentrating hormone  
 C:Keywords: hormone; hypothalamus; pituitary  
 F:1-24/Domain: signal sequence #status predicted <SIG>  
 F:25-115/Domain: propeptide #status predicted <PRO>  
 F:116-132/Product: melanin-concentrating hormone #status experimental <MAT>  
 F:120-129/Dissulfide bonds: #status experimental

Query Match 77.0%; Score 87; DB 1; Length 132;  
 Best Local Similarity 76.5%; Pred. No. 7.5e-07;  
 Matches 13; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 3 DMLRCMLGRVYRPMQOV 19  
 DB 116 DMLRCMLGRVYRPMQOV 132

RESULT 5

MTON2K  
 melanin-concentrating hormone 2 precursor - chum salmon  
 N:Alternate names: MCH2  
 C:Species: Oncorhynchus keta (chum salmon)  
 C>Date: 30-Sep-1990 #sequence\_revision 30-Sep-1990 #text\_change 24-Nov-1999  
 C:Accession: JS0283; S04087; JS0049; B01472; A01472  
 R:Takayama, I.; Wada, C.; Kawachi, H.; Ono, M.  
 Gene 80, 65-73, 1989  
 A:Title: Structures of two genes coding for melanin-concentrating hormone of chum sal  
 A:Reference number: A91618; MUID:90006787; PMID:2792771  
 A:Accession: JS0283  
 A:Molecule type: DNA  
 A:Residues: 1-132 <TRK>  
 A:Cross-references: GB:M27871; NID:9213454; PIDN:AAA49419.1; PID:9213455  
 R:Nahon, J.L.; Schoepfer, R.; Vale, W.  
 Nucleic Acids Res. 17, 3598, 1989  
 A:Title: cDNA sequence of salmon melanin-concentrating hormone exhibits similarities  
 A:Reference number: S04087; MUID:89263809; PMID:2471156  
 A:Accession: S04087  
 A:Status: translation not shown  
 A:Molecule type: mRNA  
 A:Residues: 1-106; 'SP', 109-132 <NAW>  
 A:Cross-references: EMBL:X13685; NID:964142; PIDN:CAA31978.1; PID:964143  
 R:Ono, M.; Wada, C.; Okawa, I.; Kawazoe, I.; Kawachi, H.  
 Gene 71, 433-438, 1988  
 A:Title: Structures of two kinds of mRNA encoding the chum salmon melanin-concentrat  
 A:Reference number: A91598; MUID:89138019; PMID:2465207

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A:Accession: JS0049
A:Molecule type: mRNA
A:Residues: 1-107 / 'P', 109-132 <ONO>
A:Cross-references: GB:M23574; NID:g213458; PIDN:AAA49423.1; PID:g213459
R:Kawabuchi, H.; Kawazoe, I.; Tsubokawa, M.; Kishida, M.; Baker, B.I.
A:Title: Characterization of melanin-concentrating hormone in chum salmon pituitaries.
A:Reference number: A93316; MOID:84014069; PMID:6621686
A:Accession: B01472
A:Molecule type: protein
A:Residues: 116-132 <KAW>
C:Comment: For melanin-concentrating hormone 1, see PIR:MTONIK.
C:Comment: This hormone, isolated from the pituitary gland, has an activity antagonistic
C:Gene: MCH2
C:Superfamily: melanin-concentrating hormone
C:Keywords: glycoprotein; hormone; hypothalamus; pituitary
F:1-24/Domin: signal sequence $status predicted <SIG>
F:25-115/Domin: propeptide $status predicted <PRO>
F:116-132/Produce: melanin-concentrating hormone $status experimental <MNT>
F:107/Binding site: carbonyl (Asn) (covalent) $status predicted
F:120-129/Disulfide bonds: $status experimental

Query Match          77.0%  Score 87;  DB 1;  Length 132;
Best Local Similarity 76.5%  Pred. No. 7.5e-07;
Matches 13;  Conservative 3;  Mismatches 1;  Indels 0;  Gaps 0;

OY          3  DMLRCMLGRVYRRCWOY 19
I:|||||:|||||:|
B32910
melanin-concentrating hormone 2 precursor - chinook salmon
C:Species: Oncorhynchus tshawytscha (chinook salmon)
C:Date: 08-Dec-1989 #sequence_revision 08-Dec-1989 #text_change 16-Jul-1999
C:Accession: B32910
R:Minich, C.D.; Qiu, H.; Akl, H.; Watson, S.J.; Dixon, J.E.
Proc. Natl. Acad. Sci. U.S.A. 86, 4292-4296, 1989
A:Title: Two precursors of melanin-concentrating hormone: DNA sequence analysis and in
A:Reference number: A32910; MOID:89264605; PMID:2471200
A:Accession: B32910
A:Status: Preliminary
A:Molecule type: mRNA
A:Residues: 1-132 <MNT>
C:Cross-references: GB:M25755; GB:J04562; NID:g213462; PIDN:AAA49423.1; PID:g213463
C:Superfamily: melanin-concentrating hormone

Query Match          77.0%  Score 87;  DB 2;  Length 132;
Best Local Similarity 76.5%  Pred. No. 7.5e-07;
Matches 13;  Conservative 3;  Mismatches 1;  Indels 0;  Gaps 0;

OY          3  DMLRCMLGRVYRRCWOY 19
I:|||||:|||||:|
DB          116  DLMRCMVGRRVYRRCMEY 132

RESULT 7
S34653
melanin-concentrating hormone 1 - rainbow trout
C:Species: Oncorhynchus mykiss (rainbow trout)
C:Date: 13-Jan-1995 #sequence_revision 13-Jan-1995 #text_change 16-Jul-1999
C:Accession: S34653
R:Hall, L.
Submitted to the EMBL Data Library, July 1993
A:Reference number: S34653
A:Accession: S34653
A:Status: preliminary
A:Molecule type: DNA
A:Residues: 1-132 <HAL>
A:Cross-references: EMBL:X73837; NID:g395051; PIDN:CAA52059.1; PID:g395052
C:Superfamily: melanin-concentrating hormone

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Query Match Similarity 77.0%; Score 87; DB 2; Length 132;
Best Local Similarity 76.5%; Pred. No. 7.5e-07;
Matches 13; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

OY 3 DMLRCMGRVYRPPCMOV 19
DB 116 DYMRCMGRVYRPPCMOV 132
|:|||||:|||||:|

RESULT 8
S34654
melanin-concentrating hormone 2 - rainbow trout
C:Species: Oncorhynchus mykiss (rainbow trout)
C:Date: 13-Jan-1995 #sequence_revision 13-Jan-1995 #text_change 16-Jul-1999
C:Accession: S34654
R:Hall, L.
submitted to the EMBL Data Library, July 1993
A:Reference number: S34653
A:Accession: S34654
A>Status: preliminary
A:Molecule type: DNA
A:Residues: 1-132 <H>A>
A:Cross-references: EMBL:X73838; NID:g395053; PIDN:CA452060.1; PID:g395054
C:Superfamily: melanin-concentrating hormone

Query Match 77.0%; Score 87; DB 2; Length 132;
Best Local Similarity 76.5%; Pred. No. 7.5e-07;
Matches 13; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

OY 3 DMLRCMGRVYRPPCMOV 19
DB 116 DYMRCMGRVYRPPCMOV 132
|:|||||:|||||:|

RESULT 9
A32910
melanin-concentrating hormone 1 precursor - chinook salmon
C:Species: Oncorhynchus tshawytscha (chinook salmon)
C:Date: 08-Dec-1989 #sequence_revision 08-Dec-1989 #text_change 16-Jul-1999
C:Accession: A32910
R:Mintz, G.D.; Olu, H.; Akil, H.; Watson, S.J.; Dixon, J.E.
Proc. Natl. Acad. Sci. U.S.A. 86, 4292-4296, 1989
A:Title: Two precursors of melanin-concentrating hormone: DNA sequence analysis and 1
A:Reference number: A32910; MUID:89264605; PMID:2471200
A:Accession: A32910
A>Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-132 <M>N>
A:Cross-references: GB:M25754; GB:J04561; NID:G213460; PIDN:AAA49422.1; PID:G213461
C:Superfamily: melanin-concentrating hormone

Query Match 77.0%; Score 87; DB 2; Length 132;
Best Local Similarity 76.5%; Pred. No. 7.5e-07;
Matches 13; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

OY 3 DMLRCMGRVYRPPCMOV 19
DB 116 DYMRCMGRVYRPPCMOV 132
|:|||||:|||||:|

RESULT 10
G70968
probable methyltransferase - Mycobacterium tuberculosis (strain H37Rv)
C:Species: Mycobacterium tuberculosis
C:Date: 17-Jul-1998 #sequence_revision 17-Jul-1998 #text_change 22-Oct-1999
C:Accession: G70968
R:Colle, S.T.; Brosch, R.; Parkhill, J.; Garnier, T.; Churcher, C.; Harris, D.; Gordon,
J.; Connor, R.; Davies, R.; Devlin, K.; Feltham, T.; Gentles, S.; Hamlin, N.; Holroyd,
K.; Kalandadze, M.A.; Rogers, J.; Rutter, S.; Seeger, K.; Skelton, S.; Squares, S.
Nature 393, 537-544, 1998
A:Authors: Squares, K.; Sulston, J.E.; Taylor, K.; Whitehead, S.; Barrell, B.G.
A:Title: Deciphering the biology of Mycobacterium tuberculosis from the complete geno

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A:Reference number: A70500; MUID:98295987; PMID:9634230  
A:Accession: G70968  
A:Status: preliminary; nucleic acid sequence not shown; translation not shown  
A:Molecule type: DNA  
A:Residues: 1-250 <COL>  
A:Cross-references: GB:280225; GB:AL133456; NID:93242265; PIDN:CA802328.1; PID:e266416;  
A:Experimental source: strain H37Rv  
C:Genetics:  
A:Gene: RV2675c

Query Match 42.5%; Score 48; DB 2; Length 250;  
Best Local Similarity 34.5%; Pred. No. 3;  
Matches 10; Conservative 4; Mismatches 3; Indels 12; Gaps 1;

OY 3 DMLRCMLGRVYRRC 19  
DB 216 DQVRCYLERRAIKRWLVGSRVAFMEV 244

RESULT 11  
H84442  
hypothetical protein At2g02980 [imported] - Arabidopsis thaliana  
C:Species: Arabidopsis thaliana (mouse ear cress)  
C:Date: 02-Feb-2001 #sequence\_revision 02-Feb-2001 #text\_change 02-Mar-2001  
C:Accession: H84442  
R:Lin, X.; Kaul, S.; Rounsley, S.D.; Shea, T.P.; Benito, M.I.; Town, C.D.; Fujii, C.Y.;  
M.; Koo, H.; Moffat, K.S.; Cronin, L.A.; Shen, M.; VanAken, S.E.; Umayam, L.; Tallon, L.;  
Euse, D.; Nleman, W.C.; White, O.; Eisen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter, J.  
Nature 402, 761-768, 1999  
A:Title: Sequence and analysis of chromosome 2 of the plant Arabidopsis thaliana.  
A:Reference number: A84420; MUID:20083487; PMID:10617197  
A:Accession: H84442  
A:Status: preliminary  
A:Molecule type: DNA  
A:Residues: 1-603 <STO>  
A:Cross-references: GB:AE002093; NID:93461822; PIDN:AAC29316.1; GSPDB:GN00139  
C:Genetics:  
A:Gene: At2g02980  
A:Map position: 2  
C:Superfamily: Arabidopsis thaliana hypothetical protein At2g41080

Query Match 40.7%; Score 46; DB 2; Length 603;  
Best Local Similarity 43.8%; Pred. No. 15;  
Matches 7; Conservative 2; Mismatches 7; Indels 0; Gaps 0;

OY 1 DFDMLRCMLGRVYRRC 16  
DB 179 DVDSARCVDFRIVERPC 194

RESULT 12  
D91252  
hypothetical protein EC84988 [imported] - Escherichia coli (strain O157:H7, substrain R1  
C:Species: Escherichia coli  
C:Date: 18-Jul-2001 #sequence\_revision 18-Jul-2001 #text\_change 18-Jul-2001  
C:Accession: D91252  
R:Hayashi, T.; Makino, K.; Ohnishi, M.; Kurokawa, K.; Ishii, K.; Yokoyama, K.; Han, C.G.;  
Sengavara, N.; Yasunaga, T.; Kuhara, S.; Shiba, T.; Hattori, M.; Shinagawa, H.  
DNA Res. 8, 11-22, 2001  
A:Title: Complete genome sequence of enterohemorrhagic Escherichia coli O157:H7 and gene  
A:Reference number: A99629; MUID:21156231; PMID:11258796  
A:Accession: D91252  
A:Status: preliminary  
A:Molecule type: DNA  
A:Residues: 1-186 <NAV>  
A:Cross-references: GB:BA000007; PIDN:BA838411.1; PID:q13364464; GSPDB:GN00154  
A:Experimental source: strain O157:H7, substrain R1MD 0509952  
C:Genetics:  
A:Gene: EC84988

Query Match 39.4%; Score 44.5; DB 2; Length 186;  
Best Local Similarity 57.1%; Pred. No. 8.5;  
Matches 8; Conservative 2; Mismatches 3; Indels 1; Gaps 1;

OY 5 LRCMLGRVYRRC 18  
DB 159 LECILNR-YKPAW 171

RESULT 13  
I47202  
Ig heavy chain variable VDJ region - pig (fragment)  
C:Species: Sus scrofa domestica (domestic pig)  
C:Date: 21-Feb-1997 #sequence\_revision 21-Feb-1997 #text\_change 21-Jan-2000  
C:Accession: I47202  
R:Sun, J.; Kascovics, I.; Brown, W.R.; Butler, J.E.  
J. Immunol. 153, 5618-5627, 1994  
A:Title: Expressed swine VH genes belong to a small VH gene family homologous to huma  
A:Reference number: I47177; MUID:95081609; PMID:7989761  
A:Accession: I47202  
A:Status: preliminary; translated from GB/EMBL/DBJ  
A:Molecule type: mRNA  
A:Residues: 1-143 <SUN>  
A:Cross-references: EMBL:U15518; NID:9571408; PIDN:AAA67027.1; PID:9571409  
C:Superfamily: Immunoglobulin V region; Immunoglobulin homology  
F:34-117/Domains: Immunoglobulin homology <IMM>

Query Match 38.9%; Score 44; DB 2; Length 143;  
Best Local Similarity 46.7%; Pred. No. 8;  
Matches 7; Conservative 1; Mismatches 7; Indels 0; Gaps 0;

OY 3 DMLRCMLGRVYRRC 17  
DB 109 DTRVYCAIRYRCW 123

RESULT 14  
S03416  
probable transposase - Shigella sonnei insertion sequence IS640  
C:Species: Shigella sonnei  
C:Date: 30-Sep-1989 #sequence\_revision 30-Sep-1989 #text\_change 26-Aug-1999  
C:Accession: S03416  
R:Matsutani, S.; Ohtsubo, H.; Maeda, Y.; Ohtsubo, E.  
J. Mol. Biol. 196, 445-455, 1987  
A:Title: Isolation and characterization of IS elements repeated in the bacterial chro  
A:Reference number: S03411; MUID:88062685; PMID:2824781  
A:Accession: S03416  
A:Molecule type: DNA  
A:Residues: 1-315 <MAT>  
A:Cross-references: EMBL:X05956; NID:947543; PIDN:CAA29390.1; PID:947544  
C:Genetics:  
A:Mobile element: insertion sequence IS640  
C:Superfamily: ISa protein  
C:Keywords: DNA binding

Query Match 38.5%; Score 43.5; DB 2; Length 315;  
Best Local Similarity 42.1%; Pred. No. 20;  
Matches 8; Conservative 5; Mismatches 3; Indels 3; Gaps 1;

OY 2 FDMLR---CMLGRVYRRC 17  
DB 297 YQLRKPCVIGQYRGW 315

RESULT 15  
G02277  
creative transporter - human (fragment)  
N:Alternate names: solute carrier family 6, member 10  
C:Species: Homo sapiens (man)  
C:Date: 21-Dec-1996 #sequence\_revision 06-Jun-1997 #text\_change 20-Aug-1999  
C:Accession: G02277  
R:Lyier, G.S.; Fumagalli, V.L.; Proujanaky, R.  
submitted to the EMBL Data Library, November 1995  
A:Reference number: H00966  
A:Accession: G02277  
A:Status: preliminary; translated from GB/EMBL/DDay

A:Molecule type: DNA  
 A:Residues: 1-426 <1YE>  
 A:Cross-references: EMBL:U41163; NID:g1209100; PIDN:AAA96028.1; PID:g1209101  
 C:Genetics:  
 A:Gene: GDB:SLC6A10; CT-2  
 A:Cross-references: GDB:1220162; OMIM:601294  
 A:Map position: 16p11.2-16p11.2  
 A:Introns: 45/3; 80/3; 122/1; 159/3; 205/3; 240/1; 273/3; 330/3  
 C:Superfamily: gamma-aminoacyl-tRNA synthetase  
 Query Match 38.5%; Score 43.5; DB 2; Length 426;  
 Best Local Similarity 56.2%; Pred. No. 27;  
 Matches 9; Conservative 2; Mismatches 2; Indels 3; Gaps 2;  
 QY 3 DMLRCMLGRVYRRC-W 17  
 | : || : | ||| |  
 DB 246 DDICMIG--YRRCPW 259

Search completed: June 12, 2003, 15:32:25  
 Job time : 23 secs